

SP-820UZ

- 40x super-wide optical zoom (22.4-896mm*)
- iHS Technology
- Multi-motion Movie IS
- Dual Image Stabilisation
- 14 Megapixel CMOS
- 1080p Full HD Movie and HDMI Control
- 7.6cm/3.0" 460,000 dot colour LCD
- Magic Filter Movie and/or Stills



Maximum zoom, new perspectives

Olympus' Ultra Zoom 'Traveller' Series has broken new ground again. For people who want expressive, excellent-quality close-ups on the go, the new flagship SP-820UZ has a superb optical zoom lens that takes the SP Series' traditional zoom power to a whole new level. For the first time you can magnify subjects up to 40x for the sort of detail, dynamism and emotion you'd only normally expect from an interchangeable telephoto lens. Given that its rivals can manage only 24mm*, the 22.4mm** super wide-angle lens on the SP-820UZ offers outstanding wide-angle flexibility with broad landscapes, interiors or crowds. The rest of the spec is equally impressive. Full HD and high-speed, adjustable-frame rate movie recording combines with Olympus iHS technologies that include a high-sensitivity CMOS sensor, TruePic V image processor – and an array of advanced features. The result? Fast reaction times, radiant colours, plus beautifully sharp images of fast-moving subjects and low-light, backlit scenes. Time after time, wherever you are, however light you want to travel. The SP-820UZ has an ergonomic comfort grip and the professional looks of a top-of-the-range camera.

Specifications

Digital Zoom

Enlargement factor	4x / 160x combined with optical zoom
Super Resolution Zoom	2x / 80x combined with optical zoom

Image Editing

Resize	Yes
Trimming	Yes
Correction of saturation	Yes
Red-eye reduction	Yes
Shadow Adjustment	Yes
Beauty Fix	Yes

Exposure System

Modes	i-Auto Programme automatic Beauty Scene Modes Magic Filter Panorama Hand-held Starlight P + Movie clip
Shutter speed	1/4 - 1/2000s / < 4s (Night scene)
Exposure compensation	+/- 2EV / 1/3 steps
Enhancement function	Mechanical Image Stabiliser Advanced Face Detection Technology Pet Detection

Internal Flash

Modes	AUTO Red-eye reduction Fill-in Off
Working range (wide)	0.2 - 15.0m (ISO 3200)
Working range (tele)	3.0 - 8.9m (ISO 3200)

Focusing System

Method	TTL iESP auto focus with contrast detection
Modes	iESP Face Detection AF Spot AF Tracking
Standard mode	0.1m - (wide) / 3.0m - (tele)
Macro mode	0.1m - (wide) / 3.0m - (tele)
Super Macro Mode	Closest focusing distance: 1cm
AF illuminator	Yes

Image Sensor

Effective pixels	14 Megapixels
Filter array	Primary colour filter (RGB)
Full resolution	15.3 Megapixels
Type	1/2.3" CMOS

Image Size

14M	4288 x 3216
8M	3264 x 2448
5M	2560 x 1920
3M	2048 x 1536
2M	1600 x 1200
1M	1280 x 960
VGA	640 x 480
16:9	4288 x 2416
	1920 x 1080

Interface

Combined A/V & USB output	Yes
USB 2.0 High Speed	Yes
HDMI™	Yes Micro connector (Type D) *
	* "HDMI", the HDMI logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

Monitor

Resolution	460000 dots
Monitor size	7.6cm / 3.0"
Monitor type	TFT
Frame assistance	Yes
Brightness adjustment	+/- 2 levels
Protection panel	Yes

Lens

Optical zoom	40x (WIDE)
Focal length	4.0 - 160.0mm
Focal length (equiv. 35mm)	22.4 - 896mm
Maximum aperture	3.4 - 5.7
Structure	14 lenses / 9 groups
Aspherical glass elements	4
ED glass elements	1

Light Metering

Modes	ESP light metering Spot metering
Histogram in shooting mode	Yes

Magic Filter

Types	Pop Art Pin Hole Fisheye Drawing Soft Focus Punk Sparkle Water colour
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Memory

Removable Media	SD / SDHC / SDXC (UHS-I class supported)
Eye-Fi Card compatible	Yes
Internal memory	43MB

Menu

Menu languages in camera	39
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Other Features

Self timer	2 / 12s Pet auto shutter
Perfect Shot Preview	Yes
Menu guide	Yes
Panorama function	Smart Panorama
Date imprint	Yes
SNS upload	Yes

Power Supply

Battery	AA batteries Alkaline or Ni-MH (CR-V3 not compliant)
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Image Processing

Noise reduction	Yes
Pixel mapping	Yes
Engine	TruePic V
Shading compensation	Yes
Distortion compensation	Yes

Still Image Recording

DCF	Yes
RAW	No
EXIF	2.3
PIM	III
DPS	PictBridge
DPOF	Yes

Movie Recording System

Recording format	QuickTime Motion JPEG®
Image Stabilisation Mode	Digital Image Stabilisation
High-Speed Recording	QVGA / 240fps Recording time: 20sec.

	VGA / 120fps Recording time: 20sec.
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	720P / 60fps Recording time: 20sec.
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HD Movie quality	1080P Recording time: 29min.
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	720P Recording time: 29min.
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Movie quality	VGA Recording time: Up to card capacity
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	Note: maximum file size 4GB
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Magic Filter	Pop Art
	Pin Hole
	Fisheye
	Drawing
	Soft Focus
	Punk
	Water colour
	Reflection

Sound Recording System

Voice playback	Yes
Sound recording	Yes , format: PCM
Image footage	4s
Speaker	Yes

Scene Modes

Number of scene modes	15
Modes	Portrait
	Landscape
	Night Scene
	Night Scene with portrait
	Sports
	Indoor
	Self-portrait
	Sunset

Sensitivity

Auto	AUTO / High AUTO
Manual	ISO 80, 100, 200, 400, 800, 1600, 3200, 6400

Sequence Shooting

Sequential shooting mode (high speed)	30fps / 34 frames (in 3MP mode)
	10fps / 34 frames (in 3MP mode)

	3fps / 3 frames (Full Image Size)
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Sequential shooting mode	1.5fps / 200 frames (Full Image Size)
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Size

Dimensions (W x H x D)	116.9 x 78.0 x 93.2mm
Weight	485g (including battery and memory card)

View Images

Modes	Single
	Index
	Zoom
	Slide show
	Event
Index	5 x 4 frames
Zoom	1.1 - 10x
Auto rotation	Yes
Image protect mode	Yes
Histogram in playback mode	Yes

View Movie

Modes	Frame by frame
	Fast forward
	Reverse playback

White Balance

AUTO WB system	Yes
One-touch white balance	2 custom settings can be registered
Preset values	Overcast Sunlight Tungsten Flourescent 1

*Equivalent to a 35mm camera